



**Instructions for the  
following series products:**  
DELTA™ Full Body Harnesses

(See back pages for specific  
model numbers.)

## **DELTA™ USER INSTRUCTION MANUAL FULL BODY HARNESS**

*This manual is intended to meet the Manufacturer's Instructions as required by ANSI Z359.1 and CSA 259.10-06 and should be used as part of an employee training program as required by OSHA*

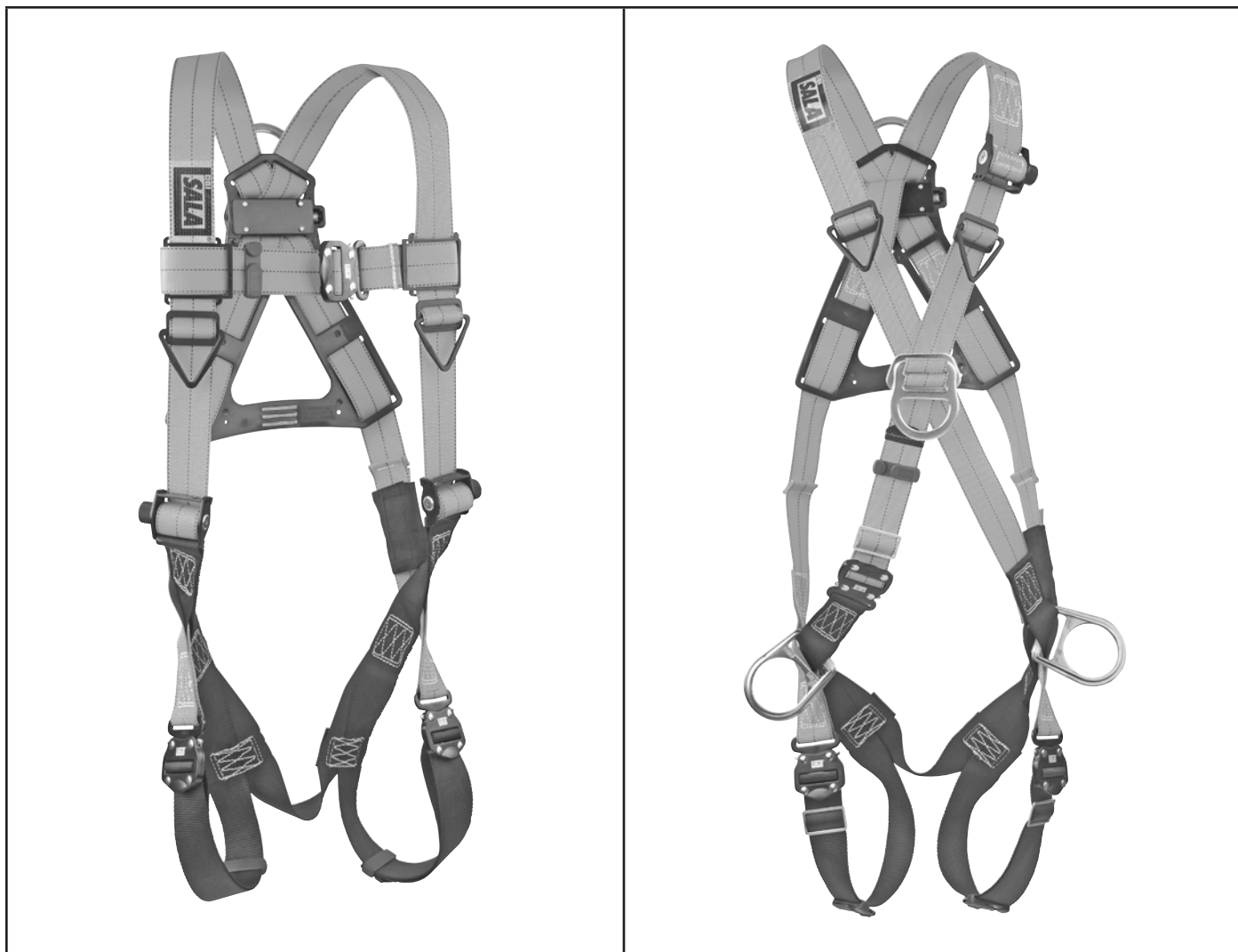


Figure 1



Figure 2



Figure 3



Figure 4



**WARNING:** This product is part of a personal fall arrest, restraint, work positioning, personnel riding, climbing, or rescue system. The user must follow the manufacturer's instructions for each component of the system. These instructions must be provided to the user of this equipment. The user must read and understand these instructions before using this equipment. Manufacturer's instructions must be followed for proper use and maintenance of this equipment. Alterations or misuse of this product or failure to follow instructions may result in serious injury or death.

**IMPORTANT:** If you have questions on the use, care, or suitability of this equipment for your application, contact Capital Safety.

**IMPORTANT:** Before using this equipment, record the product identification information from the ID label in the inspection and maintenance log of this manual.

## DESCRIPTIONS

Delta Vest™ Full Body Harness: See Figure 1.

Vest Style Full Body Harness: See Figure 2.

Cross-Over Style Full Body Harness: See Figure 3.

Step-In Style Full Body Harness: See Figure 4.

### OPTIONS:

DBI-SALA Full Body Harnesses are available with options and accessories. Following is a partial list of commonly used options and accessories (some options may not be available on all harnesses):

- Shoulder D-rings
- Side D-rings
- Hip pad with side D-rings
- Quick Connect buckles
- Tongue buckle body belt
- Loops on harness for body belt
- Kevlar® webbing
- High visibility webbing
- Non-sparking/Non conductive PVC coated hardware
- Shoulder pads
- Tool belt support straps
- Seat sling
- Lanyard attached directly to D-ring or attachment element
- Snap fastener on shoulder strap for retaining lanyard
- Delta Vest™
- Tool holders

## 1.0 APPLICATIONS

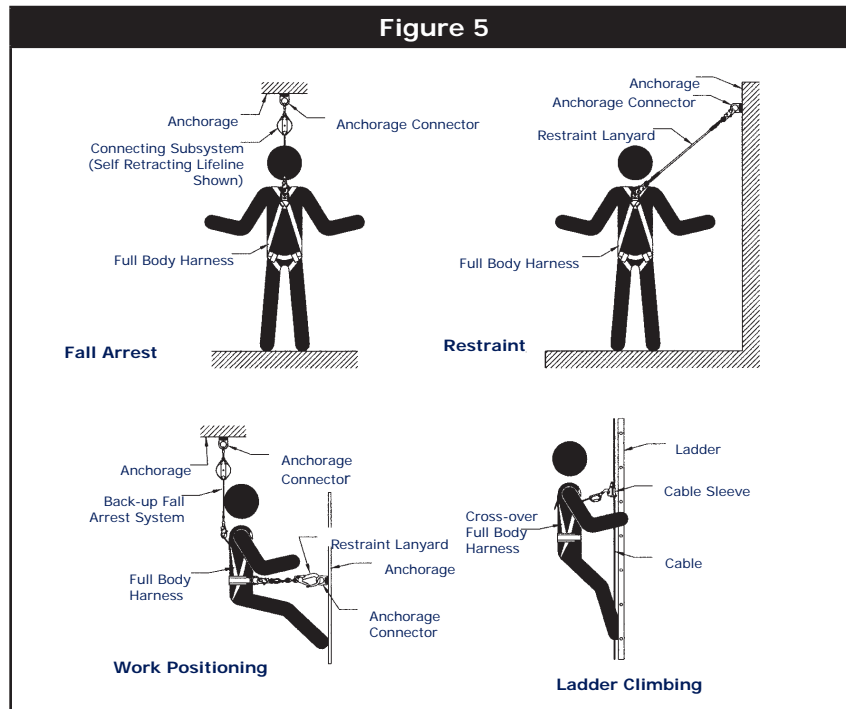
**1.1 PURPOSE:** DBI-SALA full body harnesses are to be used as components in personal fall arrest, restraint, work positioning, or rescue systems. See Figures 1, 2, 3, and 4 for harness styles.

Harnesses included in this manual are full body harnesses and meet ANSI Z359.1, OSHA, and CSA Z259.10-06 requirements. See Figure 5 for application illustrations.

- Full body harnesses with Kevlar web should be used when working with tools, materials, or environments of high temperature (foundries, chemical manufacturing, steel fabrication, emergency rescue services, fire services, welders, oil industry, nuclear industry, explosives).
- Harnesses with PVC coated hardware should be used when working in explosive or electrically conductive environments, or where surfaces must be protected from the hardware.
- Harnesses with high visibility webbing should be used when increased visibility of the user is required.



- A. PERSONAL FALL ARREST:** The full body harness is used as a component of a personal fall arrest system. Personal fall arrest systems typically include a full body harness and a connecting subsystem (energy absorbing lanyard). Maximum arresting force must not exceed 1,800 lbs (8 kN). For fall protection applications connect the fall arrest subsystem (example: lanyard, SRL, energy absorber, etc.) to the D-ring or attachment element on your back, between your shoulder blades.
- B. WORK POSITIONING:** The full body harness is used as a component of a work positioning system to support the user at a work position. Work positioning systems typically include a full body harness, positioning lanyard, and a back-up personal fall arrest system. For work positioning applications, connect the work positioning subsystem (example: lanyard, Y-lanyard, etc.) to the lower (hip level) side or belt mounted work positioning attachment anchorage elements (D-rings). Never use these connection points for fall arrest.



- C. LADDER CLIMBING:** The full body harness is used as a component of a climbing system to prevent the user from falling when climbing a ladder or other climbing structure. Climbing systems typically include a full body harness, vertical cable or rail attached to the structure, and climbing sleeve. For ladder climbing applications, harnesses equipped with a frontal D-ring in the sternal location may be used for fall arrest on fixed ladder climbing systems. These are defined in Z259.2.1 in Canada and ANSI A14.3 in the United States.
- D. RESCUE:** The full body harness is used as a component of a rescue system. Rescue systems are configured depending on the type of rescue. For limited access (confined space) applications, harnesses equipped with D-rings on the shoulders may be used for entry and egress into confined spaces where worker profile is an issue.
- E. CONTROLLED DESCENT:** For controlled descent applications, harnesses equipped with a single sternal level D-ring, one or two frontal mounted D-rings, or a pair of connectors originating below the waist (such as a seat sling) may be used for connection to a descender or evacuation system (reference in Z259.10-06 in Canada).
- F. RESTRAINT:** The full body harness is used as a component of a restraint system to prevent the user from reaching a fall hazard. Restraint systems typically include a full body harness and a lanyard or restraint line.

**1.2 LIMITATIONS:** Consider the following application limitations before using this equipment:

- A. CAPACITY:** These full body harnesses are designed for use by persons with a combined weight (clothing, tools, etc.) of no more than 420 lbs. Make sure all of the components in your system are rated to a capacity appropriate to your application.
- B. FREE FALL:** Personal fall arrest systems used with this equipment must be rigged to limit the free fall to 6 feet (1.8 M) (ANSI Z359.1). Restraint systems must be rigged so that no vertical free fall is possible. Work positioning systems must be rigged so that free fall is limited to 2 feet (.6 m) or less. Personnel

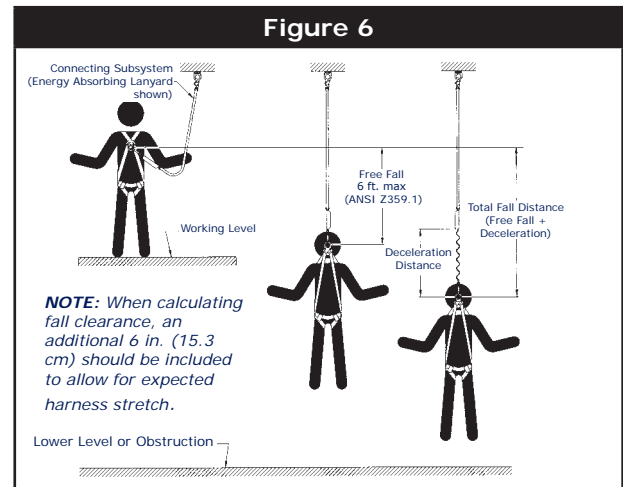
riding systems must be rigged so that no vertical free fall is possible. Climbing systems must be rigged so that free fall is limited to 18 in. (.46 cm) or less. Rescue systems must be rigged so that no vertical free fall is possible. See subsystem manufacturer's instructions for more information.

- C. FALL CLEARANCE:** See Figure 6. There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or other obstruction. The clearance required is dependent on the following factors:

- Elevation of anchorage
- Connecting subsystem length
- Deceleration distance
- Free fall distance
- Worker height
- Movement of harness attachment element

See subsystem manufacturer's instructions for more information.

- D. SWING FALLS:** See Figure 7. Swing falls occur when the anchorage point is not directly above the point where a fall occurs. The force of striking an object in a swing fall may cause serious injury or death. Minimize swing falls by working as close to the anchorage point as possible. Do not permit a swing fall if injury could occur. Swing falls will significantly increase the clearance required when a self-retracting lifeline or other variable length connecting subsystem is used.



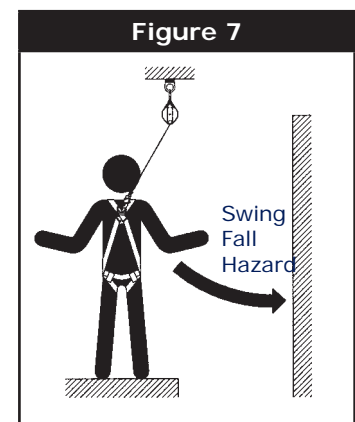
- E. EXTENDED SUSPENSION:** A full body harness is not intended for use in extended suspension applications. If the user is going to be suspended for an extended length of time it is recommended that some form of seat support be used. DBI-SALA recommends a seat board, suspension workseat, seat sling, or a boatswain chair. Contact DBI-SALA for more information on these items.

- F. ENVIRONMENTAL HAZARDS:** Use of this equipment in areas with environmental hazards may require additional precautions to prevent injury to the user or damage to the equipment. Hazards may include, but are not limited to; heat, chemicals, corrosive environments, high voltage power lines, gases, moving machinery, and sharp edges.

- G. HARNESES FOR HIGH TEMPERATURE ENVIRONMENTS:** Harnesses with Kevlar webbing are designed for use in high temperature environments, with limitations: Kevlar webbing begins to char at 800° to 900° Fahrenheit. Kevlar webbing can withstand limited contact exposure to temperatures up to 1,000° F. Polyester webbing loses strength at 300° to 400° F. PVC coating on hardware has a melting point of approximately 350° F.

**IMPORTANT:** When working with tools, materials, or in high temperature environments, ensure that associated fall protection equipment can withstand high temperatures, or provide protection for those items.

**IMPORTANT:** Although PVC coated, cadmium, or zinc plated hardware exhibit excellent corrosion resistance in chemical, acidic, alkaline, and atmospheric conditions, frequent inspections may be required. Consult with Capital Safety if you question the use of this equipment in hazardous environments.



- H. TRAINING:** This equipment must be installed and used by persons trained in its correct application and use. See section 4.0.

- 1.3 APPLICABLE STANDARDS:** Refer to national standards, including ANSI Z359 (.0, .1, .2, .3, and .4) family of standards on fall protection, ANSI A10.32, CSA Z259.10-06, and applicable local, state and federal (OSHA) requirements governing occupational safety for more information about work positioning systems.

**IMPORTANT:** Harnesses with Kevlar webbing do not meet ANSI Z359.1. Kevlar does not have equivalent abrasion resistance of polyamides. Kevlar harnesses meet all other requirements of this standard.



## 2.0 SYSTEM REQUIREMENTS

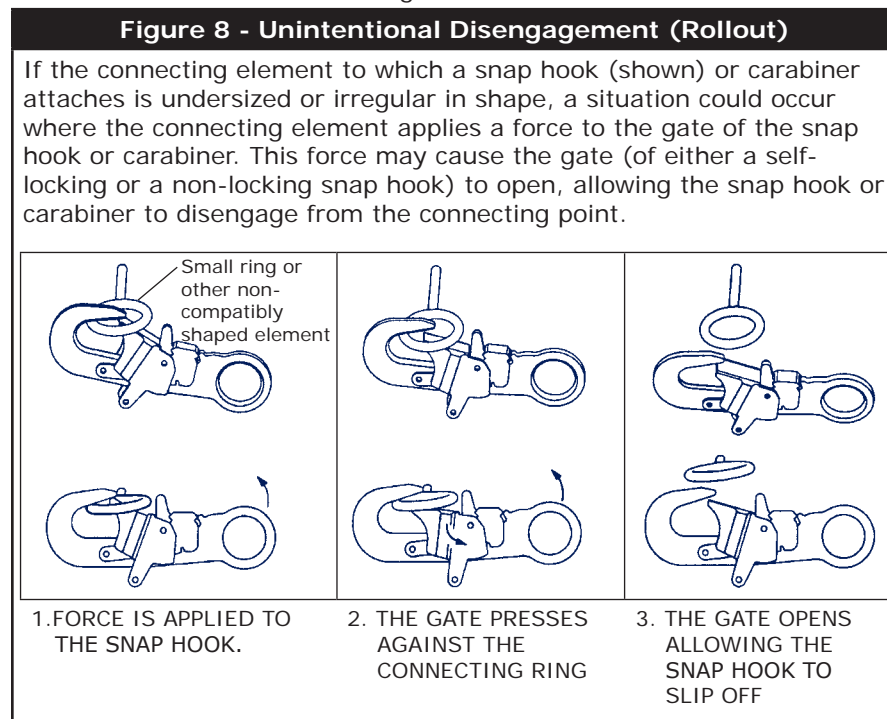
- 2.1 COMPATIBILITY OF COMPONENTS:** Capital Safety equipment is designed for use with Capital Safety approved components and subsystems only. Substitutions or replacements made with non-approved components or subsystems may jeopardize compatibility of equipment and may effect the safety and reliability of the complete system.
- 2.2 COMPATIBILITY OF CONNECTORS:** Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Contact Capital Safety if you have any questions about compatibility.

Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22.2 kN). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage. See Figure 8. Connectors must be compatible in size, shape, and strength. Self- locking snap hooks and carabiners are required by ANSI Z359.1 and OSHA.

- 2.3 MAKING CONNECTIONS:** Use only self-locking snap hooks and carabiners with this equipment. Use only connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connectors are fully closed and locked.

Capital Safety connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions. See Figure 9 for inappropriate connections. Capital Safety snap hooks and carabiners should not be connected:

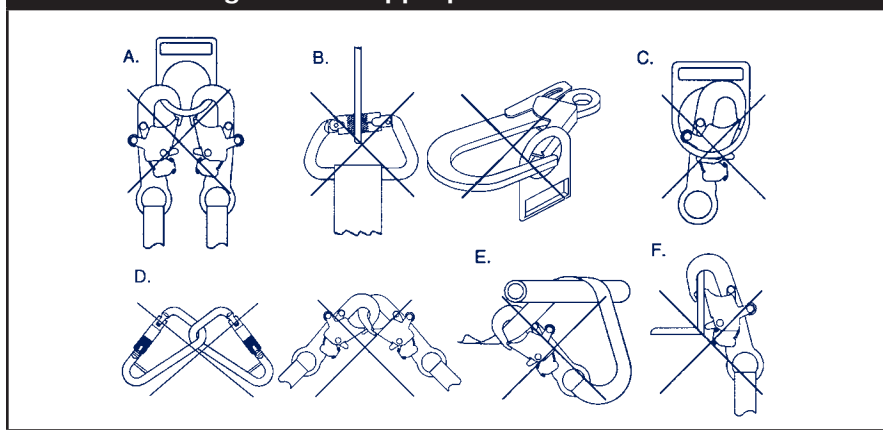
- A. To a D-ring to which another connector is attached.
- B. In a manner that would result in a load on the gate.



**NOTE:** Large throat snap hooks should not be connected to standard size D-rings or similar objects which will result in a load on the gate if the hook or D-ring twists or rotates, unless the snap hook complies with ANSI Z359.1-2007 and is equipped with a 3,600 lb gate. Check the marking on your snap hook to verify that it is appropriate for your application.

- C. In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor, and without visual confirmation seems to be fully engaged to the anchor point.

**Figure 9 - Inappropriate Connections**



- D. To each other.
- E. Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allows such a connection).
- F. To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.

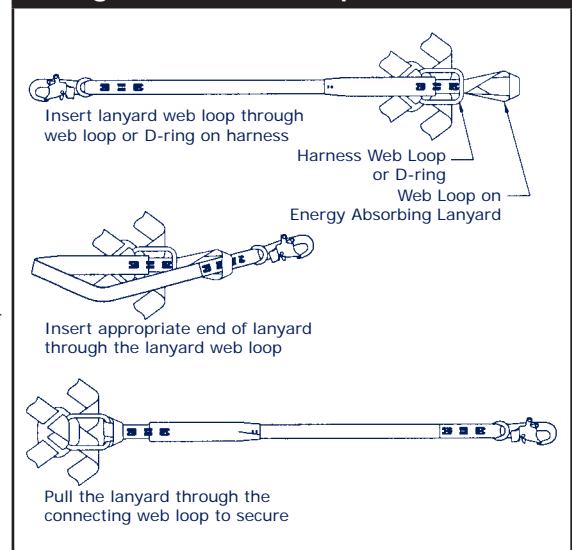
**2.4 CONNECTING SUBSYSTEMS:** Connecting subsystems (self-retracting lifeline, lanyard, rope grab and lifeline, cable sleeve) must be suitable for your application. See section 1.1. See subsystem manufacturer's instructions for more information. Some harness models have web loop connection points. Do not use snap hooks to connect to web loops. Use a self-locking carabiner to connect to a web loop. Ensure the carabiner cannot cross-gate load (load against the gate rather than along the backbone of the carabiner). Some lanyards are designed to choke onto a web loop to provide a compatible connection. See Figure 10. Lanyards may be sewn directly to the web loop forming a permanent connection. Do not make multiple connections onto one web loop, unless choking two lanyards onto a properly sized web loop.

**2.5 ANCHORAGE STRENGTH:** The anchorage strength required is dependent on the application type. The following are the requirements of ANSI 359.1 for these application types:

- A. FALL ARREST:** Anchorages selected for fall arrest systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
  1. 5,000 lbs. (22.2 kN) for non-certified anchorages, or
  2. Two times the maximum arresting force for certified anchorages. When more than one fall arrest system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.
- B. RESTRAINT:** Anchorages selected for restraint and travel restraint systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
  1. 1,000 lbs. (4.5 kN) for non-certified anchorages, or
  2. Two times the foreseeable force for certified anchorages. When more than one restraint and travel restraint system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.
- C. WORKING POSITIONING:** Anchorages selected for work positioning systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:
  1. 3,000 lbs. (13.3 kN) for non-certified anchorages, or
  2. Two times the foreseeable force for certified anchorages.

When more than one work positioning system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.
- D. RESCUE:** Anchorages selected for rescue systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least:

**Figure 10 - Web Loop Connection**



1. 3,000 lbs. (13.3 kN) for non-certified anchorages, or
2. Five times the foreseeable force for certified anchorages. When more than one rescue system is attached to an anchorage, the strengths set forth in (1) and (2) above shall be multiplied by the number of systems attached to the anchorage.

- E. CLIMBING: The structure to which a climbing system is attached must sustain the loads required by that particular system. See instructions for climbing system for requirements.

### 3.0 DONNING AND USE

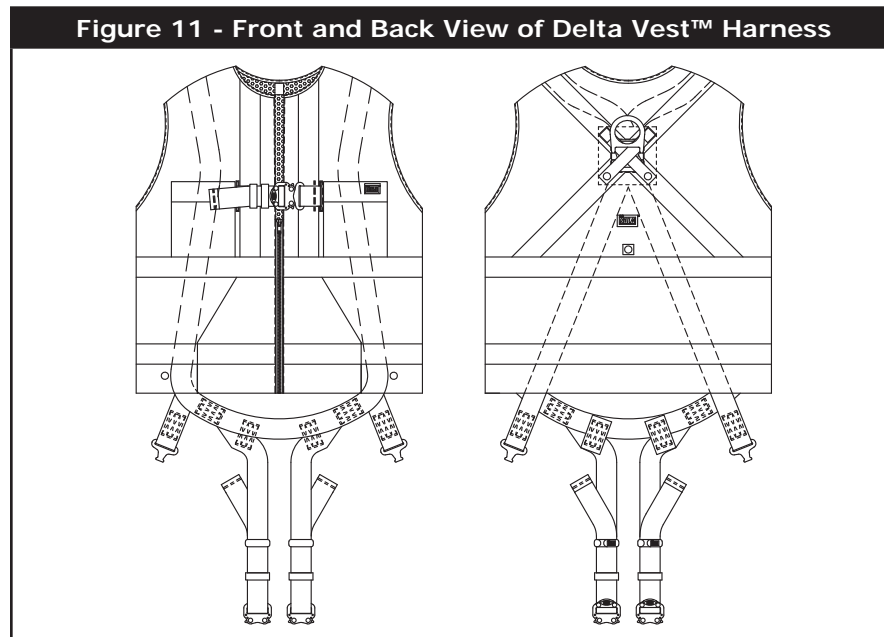
**WARNING:** Do not alter or intentionally misuse this equipment. Consult DBI-SALA when using this equipment in combination with components or subsystems other than those described in this manual. Some subsystem and component combinations may interfere with the operation of this equipment. Use caution when using this equipment around moving machinery, electrical and chemical hazards, and sharp edges.

**WARNING:** Consult your doctor if there is reason to doubt your fitness to safely absorb the shock from a fall arrest. Age and fitness seriously affect a worker's ability to withstand falls. Pregnant women or minors must not use any DBI-SALA full body harness.

- 3.1 BEFORE EACH USE** of this equipment inspect it according to section 5.0 of this manual.
- 3.2 PLAN** your system before use. Consider all factors that will affect your safety during use of this equipment. The following list gives important points to consider when planning your system:
- A. ANCHORAGE: Select an anchorage that meets the requirements specified in sections 1.2 and 2.5.
  - B. SHARP EDGES: Avoid working where system components may be in contact with, or abrade against, unprotected sharp edges.
  - C. AFTER A FALL: Components which have been subjected to the forces of arresting a fall must be removed from service and destroyed.
  - D. RESCUE: The employer must have a rescue plan when using this equipment. The employer must have the ability to perform a rescue quickly and safely.

### 3.3 DONNING AND FITTING THE HARNESS:

- A. Delta Vest™ Harness: See Figure 11 for front and back views of the Delta Vest™ harness. Don the Delta Vest™ full body harness by following these steps (see Figures 12 and 13).



- Step 1.** Lift harness by the back D-ring and untangle straps. Allow leg straps to hang free.
- Step 2.** Don the Vest Harness as you would a jacket. Do not zip the vest at this time.
- Step 3.** Connect chest strap by passing male buckle through female buckle. Pass excess webbing through loop keepers.

- Step 4.** Reach between legs and grasp the leg strap on your left side. Bring the strap up between your legs and connect to buckle attached to yellow strap (orange on high visibility models, black on flame resistant models) as shown in Figures 12 and 13. Connect right leg strap.
- Step 5.** Reach inside the vest and adjust shoulder straps to a snug fit. Left and right shoulder straps should be adjusted to the same length. Readjust leg straps, chest strap, and shoulder straps as necessary to a snug fit.
- Step 6.** Zip the vest.

**Figure 12 - Donning the Delta Vest™ Harness**



**Figure 13A - Delta Vest™ Harness Buckle Connections**



**Chest Strap:** Pass male buckle through female buckle and pull free end of webbing to tighten.



**Tongue Buckle:** Pass webbing through buckle and insert tongue through grommet.



**Pass Buckle:** Pass male buckle through female buckle and pull free end of webbing to tighten.



**Quick Connect Buckle:** Insert the tab of the buckle into the receptor of the quick connect buckle until a click is heard.

- B. Vest Style Harness:** If your harness incorporates loops for a removable waist belt, the belt should be installed through the four loops in the harness as shown in Figure 14. The hip pad, if used, is secured to the belt by passing the belt through the hip pad loops. Don the vest style full body harness by following these steps (see Figures 14-16B):

**NOTE:** Vest Style harnesses contain different harness buckle connections. See Figure 13A for the style that applies to your harness.

- Step 1.** Locate back D-ring held in position by the D-ring pad; lift up harness and hold by this D-ring. Ensure the straps are not twisted.
- Step 2.** Grasp the shoulder straps and slip harness onto one arm. D-ring will be located on your back side. Ensure straps are not tangled and hang freely. Slip free arm into harness and position shoulder straps on top of shoulder. Chest strap buckle will be positioned on front side when worn properly. Pass excess strap through the loop keepers.
- Step 3.** Reach between your legs and grasp the leg strap on your left side. Bring the strap up between your legs and connect it as shown in Figure 16A. Pull the free end of the strap away from the buckle to make a snug fit on each leg strap. To loosen the leg strap, grasp the buckle and pull away from your leg to allow the strap to pull through the buckle. A plastic end keeper on the end of the strap will stop it from pulling completely out of the buckle. To release the buckle. Repeat this procedure for the right side.
- Step 4.** Adjust the waist belt by inserting the buckle tongue into the grommet on the left side as shown in Figure 16A.
- Step 5.** Attach the chest strap by connecting the buckle. See Figure 16A. Chest strap should be six inches down from the top of shoulders. Pass excess strap through the loop keepers. The strap may be tightened to a snug fit by pulling the free strap end to the left (away from the buckle). To loosen

**Figure 13B - Revolver™ Vertical Torso Adjusters**

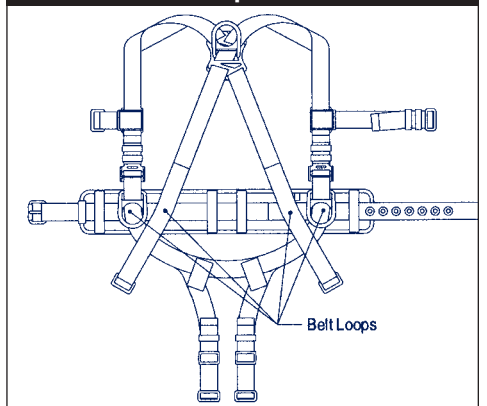


**To Tighten:** Turn Ratchet Knob clockwise.

**To Loosen:** Pull Ratchet Knob out and turn counterclockwise while pulling strap.

**NOTE:** After adjustment, ensure that the ramped teeth on the adjuster are engaged in the ratchet slots.

**Figure 14 - Removable Waist Belt & Hip Pad**

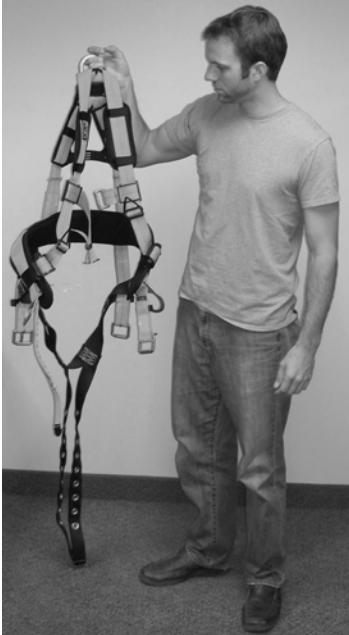




the chest strap, grasp the buckle and pull away from the body to allow the strap to pull through the buckle. A plastic end keeper on the end of the strap will stop it from pulling completely out of the buckle.

- Step 7.** Adjust shoulder straps to a snug fit (Figure 16B). Left and right sides of shoulder straps should be adjusted to the same length and the chest strap should be centered on your lower chest, six inches down from shoulder. The front D-ring on vest style harness is moved up or down by adjusting the shoulder straps and leg straps. Center the back D-ring between shoulder blades. Adjust leg straps to a snug fit. At least three inches of webbing must extend past buckle on leg straps. Adjust the waist belt (if present). Center retrieval D-rings (if present) on top of each shoulder.

**Figure 15 - Donning Vest Style Harness**



**Step 1**



**Step 2**



**Step 3**



**Step 4**



**Step 5**



**Step 6**



**Figure 16A - Vest Style Harness Buckle Connections**



**Chest Strap:** Pass male buckle through female buckle and pull free end of webbing to tighten.



**Chest Strap:** Attach chest strap by inserting the tab of the buckle into the receptor of the quick connect buckle until a click is heard.



**Tongue Buckle:** Pass webbing through buckle and insert tongue through grommet.



**Pass Buckle:** Pass male buckle through female buckle and pull free end of webbing to tighten.



**Quick Connect Buckle:** Insert the tab of the buckle into the receptor of the quick connect buckle until a click is heard.

- C. CROSS-OVER STYLE HARNESS:** If your harness incorporates loops for a removable waist belt, the belt should be installed through the four loops in the harness as shown in Figure 17. The hip pad, if used, is secured to the belt by passing the belt through the hip pad loops. Don the cross-over style full body harness by following these steps (see Figures 17-19B):

**NOTE:** Cross-Over Style harnesses contain different harness buckle connections. See Figure 16A for the style that applies to your harness.

- Step 1.** Locate back D-ring held in position by the D-ring pad; lift up harness and hold by this D-ring. Ensure the straps are not twisted.
- Step 2.** Grasp shoulder straps between back and front D-ring and slip harness over your head from the left side. Position shoulder straps on top of shoulder. Ensure straps are not tangled and hang freely. The D-ring will be positioned on your back when worn properly.
- Step 3.** Grasp the buckle below the front D-ring and connect (Figure 19A). Ensure straps are not tangled or crossed.
- Step 4.** Reach between legs and grasp blue leg strap on your left side. Bring strap up between legs and connect to buckle. Connect right leg strap (Figure 19A).
- Step 5.** Adjust shoulder straps to a snug fit (Figure 19B). Left and right sides of shoulder straps should be adjusted to the same length and the front D-ring should be centered on your lower chest. The back D-ring should be centered between your shoulder blades. Adjust leg straps to a snug fit. Adjust the waist belt (if present). Center retrieval D-rings (if present) on top of each shoulder.

**Figure 16B - Revolver™ Vertical Torso Adjusters**

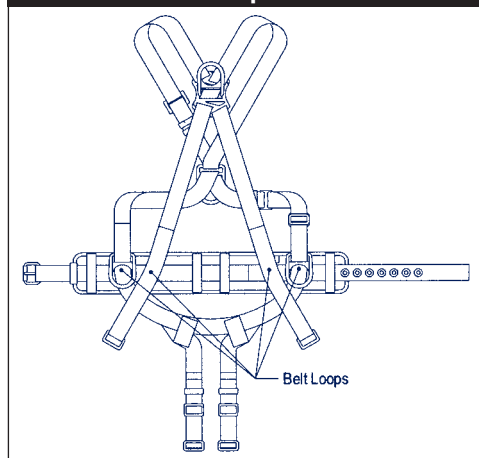


**To Tighten:** Turn Ratchet Knob clockwise.

**To Loosen:** Pull Ratchet Knob out and turn counterclockwise while pulling strap.

**NOTE:** After adjustment, ensure that the ramped teeth on the adjuster are engaged in the ratchet slots.

**Figure 17 - Removable Waist Belt and Hip Pad**



**Figure 18 - Donning Cross-over Style Harness**



**Step 1**



**Step 2**



**Step 3**



**Step 4**



**Step 5**

**Figure 19A - Cross-over Style Harness Buckle Connections**



**Tongue Buckle:** Pass webbing through buckle and insert tongue through grommet.

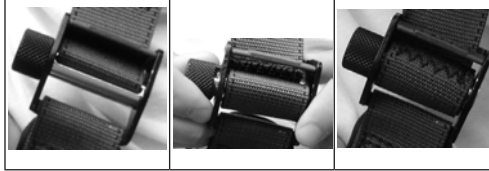


**Pass Buckle:** Pass male buckle through female buckle and pull free end of webbing to tighten.



**Quick Connect Buckle:** Insert the tab of the buckle into the receptor of the quick connect buckle until a click is heard.

**Figure 19B - Revolver™ Vertical Torso Adjusters**



**To Tighten:** Turn Ratchet Knob clockwise.

**To Loosen:** Pull Ratchet Knob out and turn counterclockwise while pulling strap.

**NOTE:** After adjustment, ensure that the ramped teeth on the adjuster are engaged in the ratchet slots.

- 3.4 USE OF FALL ARREST D-RING OR ATTACHMENT ELEMENT:** For fall protection applications connect to the D-ring or attachment element on your back, between your shoulder blades. Side D-rings, if present, are for positioning or restraint applications only. Shoulder retrieval D-rings are for rescue or retrieval applications only. Front D-ring is for ladder climbing or positioning. D-rings on seat sling are for suspension or positioning applications only.
- 3.5 MAKING CONNECTIONS:** When using a hook to connect to an anchorage or when coupling components of the system together, ensure roll-out cannot occur. Roll-out occurs when interference between the hook and mating connector causes the hook gate to unintentionally open and release. Self-locking snap hooks and carabiners should be used to reduce the possibility of roll-out. Do not use hooks or connectors that will not completely close over the attachment object. See subsystem manufacturer's instructions for more information on making connections.
- 3.6 CONNECTING SYSTEM COMPONENTS:** After fitting the full body harness the user may then connect to other system components. Follow the guidelines in section 3.4 on selecting the correct attachment element.

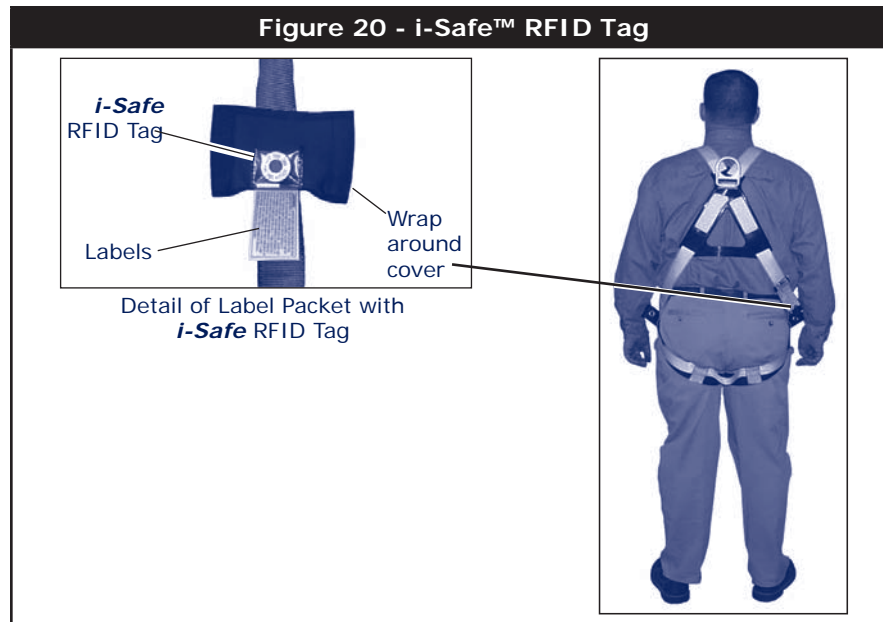
## **4.0 TRAINING**

- 4.1** It is the responsibility of the user and the purchaser of this equipment to assure that they are familiar with these instructions, trained in the correct care and use of, and are aware of the operating characteristics, application limits, and the consequences of improper use of this equipment.

**IMPORTANT:** Training must be conducted without exposing the user to a fall hazard. Training should be repeated on a periodic basis.

## **5.0 INSPECTION**

- 5.1** The i-Safe™ RFID tag on this harness can be used in conjunction with the i-Safe handheld reading device and the web based portal to simplify inspection and inventory control and provide records for your fall protection equipment See Figure 22.
- 5.2 FREQUENCY:** Before each use inspect the full body harness according to sections 5.3 and 5.4. The harness must be inspected by a competent person, other than the user, at least annually. Record the results of each formal inspection in the inspection and maintenance log in section 9.0, or use the i-Safe™ inspection web portal to maintain your inspection records. If you are a first-time user, contact a Customer Service representative in the US at 800-328-6146 or in Canada at 800-387-7484 or if you have already registered, go to: [www.capitalsafety.com/isafe.html](http://www.capitalsafety.com/isafe.html). Follow instructions provided with your i-Safe handheld reader or on the web portal to transfer your data to your web log.



**IMPORTANT:** If the full body harness has been subjected to fall arrest or impact forces it must be immediately removed from service and destroyed.

**IMPORTANT:** Extreme working conditions (harsh environments, prolonged use, etc.) may require increasing the frequency of inspections.

### 5.3 INSPECTION STEPS:

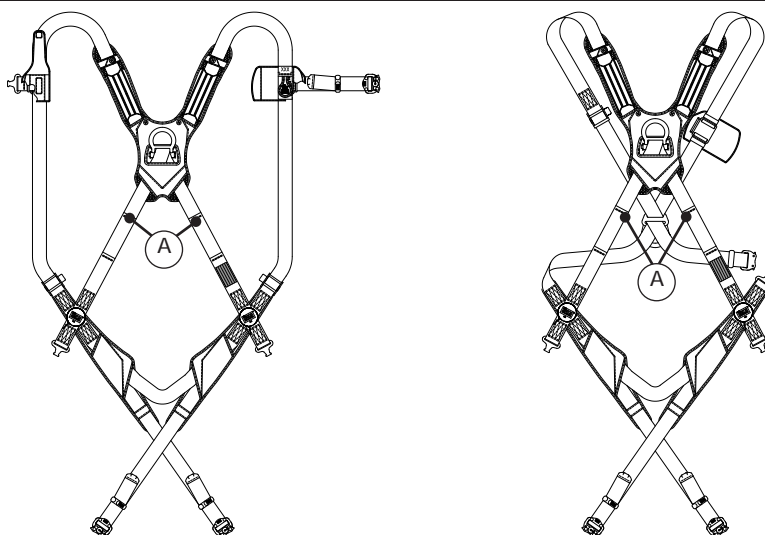
- Step 1.** Inspect harness hardware (buckles, D-rings, back pad, loop keepers); These items must not be damaged, broken, distorted, and must be free of sharp edges, burrs, cracks, worn parts, or corrosion. PVC coated hardware must be free of cuts, rips, tears, holes, etc. in the coating to ensure non-conductivity. Ensure buckles work smoothly. If present, inspect the quick connect buckles by ensuring that the release tabs work freely and that a click is heard when the buckle engages. Inspect parachute buckle spring.
- Step 2.** Inspect webbing; material must be free of frayed, cut, or broken fibers. Check for tears, abrasions, mold, burns, or discoloration. Inspect stitching; Check for pulled or cut stitches. Broken stitches may be an indication that the harness has been impact loaded and must be removed from service.

**IMPORTANT:** On Delta Vest™ harnesses, inspection should include the webbing inside the vest.

- Step 3.** Inspect labels; All labels should be present and fully legible. See section 8.0.
- Step 4.** Inspect each system component or subsystem according to manufacturer's instructions.
- Step 5.** Inspect the Stitched Impact Indicator: The stitched impact indicator is a section of webbing that is lapped back on itself and secured with a specific stitch pattern holding the lap (see 22). The stitch pattern is designed to release when the harness arrests a fall or has been subjected to an equivalent force. If the impact indicator has been activated the harness must be removed from service and destroyed.

**Figure 21 - Stitched Impact Indicator**

A. Stitched Impact Indicator



**Step 6.** Record the inspection date and results in the inspection and maintenance log in section 9.0, or use the i-Safe™ inspection web portal.

**NOTE:** Some harnesses are equipped with a "stand up D-ring" in the dorsal (back) D-ring location. If the spring in the D-ring is damaged or lost and the D-ring no longer stands up, this does not compromise the harness integrity. As long as the D-ring passes inspection criteria in Step 1, it is safe to use.

**5.4** If inspection reveals a defective condition, remove unit from service immediately and destroy.

**NOTE:** Only DBI-SALA or parties authorized in writing may make repairs to this equipment.

**5.5 PRODUCT LIFE:** The functional life of DBI-SALA harnesses is determined by work conditions and maintenance. As long as the product passes inspection criteria, it may remain in service.

## **6.0 MAINTENANCE, SERVICING, STORAGE**

### **6.1 WASHING INSTRUCTIONS:**

A. Full body harness: Clean full body harness with water and a mild soap solution. Do not use bleach or bleach solutions. Wipe off hardware with a clean, dry cloth, and hang to air dry. Do not force dry with heat. An excessive buildup of dirt, paint, etc. may prevent the full body harness from working properly, and in severe cases degrade the webbing to a point where it weakens and should be removed from service. More information on cleaning is available from DBI-SALA. If you have questions concerning the condition of your harness, or have any doubt about putting it into service contact DBI-SALA.

B. Fire Resistant Padding:

- Remove pads from harness for laundering. Place the harness in the supplied laundry bag. The bag is designed to prevent entanglement of harness and to protect the washing machine from damage. Use of the laundry bag to wash the pads is optional.
- Launder flame resistant pads separately from harness or other non-flame resistant garments. Lint from other garments may affect flame resistance.
- Use a bleach-free detergent when washing both the harness and the pads. Do not use soap; soap may leave a residue which could affect flame resistance.
- Do not use chlorine bleach. Bleach may weaken fabric and reduce product life.
- Oily or greasy stains may be pre-treated and washed in hot water 140°F max (60°C max).
- Use delicate, permanent press, or cotton sturdy wash cycle with cold or warm water. Hot water can be used on heavily soiled items as long as it does not exceed 140°F (60°C). Use extra rinse cycle to be sure all residual wash chemicals are removed.
- Air dry or tumble dry using permanent press cycle and low heat. Drying temp should not exceed 200°F (93°C). These fabrics dry quickly, for lowest shrinkage, do not over dry.

**6.2** Additional maintenance and servicing procedures must be completed by a factory authorized service center. Authorization must be in writing. Do not attempt to disassemble the unit.

**6.3** Store full body harnesses in a cool, dry, clean environment out of direct sunlight. Avoid areas where







## 7.0 SPECIFICATIONS

All harnesses, excluding Kevlar harnesses, meet ANSI Z359.1 and OSHA requirements.

- Hip Pad with side D-rings
- Nomex covered Kevlar webbing
- Non-sparking/ Non-conductive PVC coated hardware
- Arc-rated hip, leg, and back pads
- Polyurethane coated, arc-rated dorsal web loop

## 8.0 LABELING

ANSI	CSA
 <p>RFID Serial Number Label</p>	 <p>Étiquette RFID</p>
 <p>Size Label</p>	 <p>Étiquette de taille</p>



ANSI	CSA
<div> <p><b>WARNING</b> MANUFACTURER'S INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO USE. INSTRUCTIONS SUPPLIED WITH THIS PRODUCT AT TIME OF SHIPMENT MUST BE FOLLOWED. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH. CONTACT DBI-SALA IF INSTRUCTION SHEET IS NEEDED. INSPECT BEFORE EACH USE. DO NOT USE IF WEAR OR DAMAGE IS PRESENT. THIS BODY HARNESS IS INTENDED TO BE USED TO ARREST THE MOST SEVERE FREE FALLS. ITEMS SUBJECTED TO FALL ARREST OR IMPACT FORCES MUST BE IMMEDIATELY REMOVED FROM SERVICE AND DESTROYED. CONNECTING SNAP AND D-RING MUST BE COMPATIBLE IN SIZE, SHAPE, AND STRENGTH. THIS ITEM IS NOT FLAME OR HEAT RESISTANT. REPAIRS ONLY TO BE PERFORMED BY DBI-SALA. EQUIPMENT MODIFICATION OR MISUSE, VOIDS WARRANTY.</p> </div> <div> <p><b>DBI-SALA</b> BODY HARNESS. CAPACITY: 310 LBS. NYLON WEB</p> <p>DBI-SALA 3965 PEPIN AVENUE RED WING, MN 55066 (800) 328-6146</p> <p>DO NOT REMOVE THIS LABEL MADE IN THE U.S.A.</p> </div>	<div> <p><b>WARNING/AVERTISSEMENT !</b></p> <p>Any unit which has seen a fall arresting service should not be used after such service. Before use, read and comply with all labels and separate instructions. Failure to do so could result in serious injury or death. Contact Capital Safety if written instruction sheet is needed. Inspect before each use. If wear damage exists, do not use. This body harness is intended to be used to arrest the most severe fall. Connecting snap and D-ring must be compatible in size, shape and strength. Repairs only to be performed by Capital Safety Group. Equipment modification or misuse voids warranty. On ne doit pas utiliser un dispositif après qu'il a servi à arrêter une chute. Avant de l'utiliser, on doit lire et observer les instructions sur toutes les étiquettes et dans les autres documents. Vérifier ce harnais avant chaque utilisation. Inspecter avant chaque utilisation. Si il y a des dommages dus à l'usage, ne pas utiliser. Ce harnais de sécurité est destiné à être utilisé pour arrêter les chutes libres. Les équipements doivent être effectués seulement par le Capital Safety Group. Une modification ou un usage abusif de l'équipement annule la garantie.</p> </div> <div> <p><b>DBI-SALA</b> BODY HARNESS/Harnais de sécurité NYLON WEB/Sangle: Nylon SIZE/GRANDEUR: SEE LABEL DO NOT REMOVE THIS LABEL/ Ne pas enlever cette étiquette MEETS ASTM F887-05</p> <p>www.capitalsafety.com (800) 328-6146 MADE IN CANADA</p> <p>HARNESS CLASSIFICATION/ Classe de Harnais</p> <p>CSA STANDARD Z259.10-06</p> </div>
<p>Warning Label Used on Nylon ASTM F887-2004 Compliant Harnesses</p>	<p>Étiquette de mise en garde du harnais de nylon</p>
<div> <p><b>WARNING</b> MANUFACTURER'S INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO USE. INSTRUCTIONS SUPPLIED WITH THIS PRODUCT AT TIME OF SHIPMENT MUST BE FOLLOWED. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH. CONTACT DBI-SALA IF INSTRUCTION SHEET IS NEEDED. INSPECT BEFORE EACH USE. DO NOT USE IF WEAR OR DAMAGE IS PRESENT. THIS BODY HARNESS IS INTENDED TO BE USED TO ARREST THE MOST SEVERE FREE FALLS. ITEMS SUBJECTED TO FALL ARREST OR IMPACT FORCES MUST BE IMMEDIATELY REMOVED FROM SERVICE AND DESTROYED. CONNECTING SNAP AND D-RING MUST BE COMPATIBLE IN SIZE, SHAPE AND STRENGTH. REPAIRS ONLY TO BE PERFORMED BY DBI-SALA. EQUIPMENT MODIFICATION OR MISUSE, VOIDS WARRANTY.</p> </div> <div> <p><b>DBI-SALA</b> BODY HARNESS. CAPACITY: 310 LBS. NOMEX/KEVLAR WEB</p> <p>www.capitalsafety.com (800) 328-6146</p> <p>DO NOT REMOVE THIS LABEL MADE IN THE U.S.A.</p> </div>	<div> <p><b>WARNING/AVERTISSEMENT !</b></p> <p>Any unit which has seen a fall arresting service should not be used after such service. Manufacturer's instructions must be read and understood prior to use. Instructions supplied at time of shipment must be followed. Failure to do so could result in serious injury or death. Contact DBI-SALA if instruction sheet is needed. Inspect before each use. Do not use if wear or damage is present. This body harness is intended to be used to arrest the most severe falls. Connecting snap and D-ring must be compatible in size, shape and strength. Repairs only to be performed by DBI-SALA. Equipment modification or misuse voids warranty. On ne doit pas utiliser un dispositif après qu'il a servi à arrêter une chute. On doit lire et comprendre les instructions du fabricant avant d'utiliser le produit. On doit observer les instructions fournies au moment de l'expédition. Vérifier ce harnais avant chaque utilisation. Inspecter avant chaque utilisation. Ne pas utiliser s'il y a eu l'usage ou des dommages. Ce harnais de sécurité est destiné à être utilisé pour arrêter les chutes libres. Les réparations doivent être effectuées seulement par DBI-SALA. Une modification ou un usage abusif de l'équipement annule la garantie.</p> </div> <div> <p><b>DBI-SALA</b> Full Body Harness Harnais de sécurité Nomex/Kevlar web Sangle en Nomex/Kevlar Size: See label Grandeur: Voir étiquette Do not remove label Ne pas enlever cette étiquette Made in Canada Fabriqué au Canada Harness Classification: Classe de harnais</p> <p>www.capitalsafety.com USA: (800) 328-6146 Canada: (800) 387-7484</p> <p>CSA STANDARD Z259.10</p> </div>
<p>Warning Label Used on Nomex/Kevlar ASTM F887-2004 Compliant Harnesses</p>	<p>Étiquette de mise en garde du harnais Nomex ou Kevlar</p>
<div> <p><b>WARNING</b> MANUFACTURER'S INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO USE. INSTRUCTIONS SUPPLIED WITH THIS PRODUCT AT TIME OF SHIPMENT MUST BE FOLLOWED. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH. CONTACT DBI-SALA IF INSTRUCTION SHEET IS NEEDED. INSPECT BEFORE EACH USE. DO NOT USE IF WEAR OR DAMAGE IS PRESENT. THIS BODY HARNESS IS INTENDED TO BE USED TO ARREST THE MOST SEVERE FREE FALLS. ITEMS SUBJECTED TO FALL ARREST OR IMPACT FORCES MUST BE IMMEDIATELY REMOVED FROM SERVICE AND DESTROYED. CONNECTING SNAP AND D-RING MUST BE COMPATIBLE IN SIZE, SHAPE, AND STRENGTH. THIS ITEM IS NOT FLAME OR HEAT RESISTANT. REPAIRS ONLY TO BE PERFORMED BY DBI-SALA. EQUIPMENT MODIFICATION OR MISUSE, VOIDS WARRANTY.</p> </div> <div> <p><b>DBI-SALA</b> BODY HARNESS POLYESTER WEB CAPACITY: 420 LBS.</p> <p><b>WARNING</b> DO NOT EXCEED CAPACITY OF THIS OR OTHER SYSTEM COMPONENTS. CAPACITY IS THE COMBINED WEIGHT FOR WHICH THE COMPONENT IS DESIGNED TO BE USED. COMBINED WEIGHT INCLUDES THE USER'S BODY WEIGHT, CLOTHING, TOOLS, AND ANY OBJECTS CARRIED. CONTACT DBI-SALA FOR MORE INFORMATION.</p> </div>	<div> <p><b>WARNING</b> MANUFACTURER'S INSTRUCTIONS MUST BE READ AND UNDERSTOOD PRIOR TO USE. INSTRUCTIONS SUPPLIED WITH THIS PRODUCT AT TIME OF SHIPMENT MUST BE FOLLOWED. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH. CONTACT CAPITAL SAFETY IF INSTRUCTION SHEET IS NEEDED. INSPECT BEFORE EACH USE. REMOVE FROM SERVICE AFTER FALL ARREST. REMOVE FROM SERVICE IF WEAR DAMAGE IS PRESENT DURING INSPECTION. MAKE ONLY COMPATIBLE CONNECTIONS. DO NOT ALTER OR REPAIR HARNESS.</p> <p><b>AVERTISSEMENTS</b> LES INSTRUCTIONS DU FABRICANT DOIVENT ÊTRE LUES ET COMPRIS PRÉALABLEMENT À L'UTILISATION. LES INSTRUCTIONS FOURNIES AVEC CE PRODUIT AU MOMENT DE L'EXPÉDITION DOIVENT ÊTRE SUIVIES. NE PAS MODIFIER LES RECOMMANDATIONS PEUT ENTRAÎNER DES BLESSURES GRAVES, VOIRE MORTELLES. CONTACTER CAPITAL SAFETY EN CAS DE BESOIN DE NOTICE. INSPECTER AVANT CHAQUE UTILISATION. METTRE HORS SERVICE APRÈS L'ARRÊT D'UNE CHUTE. METTRE HORS SERVICE SI L'INSPECTION RÉVÈLE DES DOMMAGES DUS À L'USURE. EFFECTUER SEULEMENT DES RÉPARATIONS COMPATIBLES. NE PAS MODIFIER OU RÉPARER LE HARNESS.</p> </div> <div> <p><b>DBI-SALA</b> BODY HARNESS/Harnais de sécurité POLYESTER WEB/Sangle: polyester SIZE/GRANDEUR: SEE LABEL DO NOT REMOVE THIS LABEL/ Ne pas enlever cette étiquette MEETS ASTM F887-05</p> <p>www.capitalsafety.com (800) 328-6146 MADE IN CANADA.</p> <p>HARNESS CLASSIFICATION/ Classe de Harnais</p> <p>CSA STANDARD Z259.10-06</p> </div>
<p>Warning Label</p>	<p>Vignette de mise en garde</p>

ANSI	CSA
<div><div><div>USER IDENTIFICATION MARK LABEL WITH PERMANENT MARKER</div><div><div>9503007 REV B U.S. PATENT NO. 6,686,434</div><div><div>A - BACK D-RING IS FOR FALL ARREST AND RESCUE.</div><div><div>B - FRONT D-RING (IF PRESENT) IS FOR POSITIONING, LADDER CLIMBING, OR FALL ARREST (2 FT MAXIMUM FREEFALL). USE SELF-LOCKING SNAPS ONLY.</div><div><div>C - SIDE D-RINGS (IF PRESENT) ARE FOR POSITIONING.</div><div><div>D - SHOULDER D-RINGS (IF PRESENT) ARE FOR RESCUE ONLY. DO NOT USE FOR OTHER PURPOSES. USE SELF-LOCKING SNAPS ONLY.</div></div></div><div>SEE INSTRUCTIONS FOR MORE DETAILS.</div></div><div>Instruction Label (Vest Style)</div></div></div></div></div>	<div><div><div>1 2 3 4 5</div><div><div>9503000 REV C</div><div><div>1 FALL ARREST, CLASS A, AND RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL) (2 FT MAXIMUM FREEFALL) 2 FALL ARREST WITH SELF-RESCUE, CLASS A, NO RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL) 3 FALL ARREST WITH RESCUE, CLASS A, NO RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL) 4 POSITIONING, CLASS B, NO RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL) 5 LADDER CLIMBING, CLASS C, NO RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL)</div><div><div>1 FALL ARREST, CLASS A, AND RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL) (2 FT MAXIMUM FREEFALL) 2 FALL ARREST WITH SELF-RESCUE, CLASS A, NO RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL) 3 FALL ARREST WITH RESCUE, CLASS A, NO RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL) 4 POSITIONING, CLASS B, NO RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL) 5 LADDER CLIMBING, CLASS C, NO RESCUE/LIMIT RES. DIVERS (2 FT MAXIMUM FREEFALL)</div><div><div>SEE INSTRUCTIONS FOR MORE DETAILS.</div></div></div></div><div><div>USER IDENTIFICATION/ MARK LABEL WITH PERMANENT MARKER/ÉTIQUETER L'ÉTIQUETTE AVEC UN MARQUEUR PERMANENT</div><div>Étiquette couverture</div></div></div></div></div>
<div><div><div>USER IDENTIFICATION MARK LABEL WITH PERMANENT MARKER</div><div><div>9503007 REV B U.S. PAT. NO. 6,686,434 CAN. PAT. NO. 2,080,643</div><div><div>A - FRONT D-RING (IF PRESENT) IS FOR POSITIONING, LADDER CLIMBING, OR FALL ARREST (2 FT MAXIMUM FREEFALL).</div><div><div>B - BACK D-RING IS FOR FALL ARREST AND RESCUE.</div><div><div>C - SIDE D-RINGS (IF PRESENT) ARE FOR POSITIONING.</div></div></div><div>SEE INSTRUCTIONS FOR MORE DETAILS.</div></div><div>Instruction Label (Cross-Over Style)</div></div></div></div>	
<div><div><div>9503000 REV A</div><div><div>PRODUCT COMPLIANCE THIS PRODUCT COMPLIES WITH THE FOLLOWING STANDARDS ONLY IF MARKED WITH THE CORRESPONDING LETTER CODE UNDER "STD'S" SECTION BELOW.</div><div><div>A = ANSI Z359.1 C = ANSI A10.32-2004 E = ANSI Z359.3</div><div><div>B = OSHA D = ASTM F887-2005 F = ANSI Z359.4</div></div></div><div>MFRD.(YRMO); LOT: MODEL NO: STD'S:</div><div><div>SERIAL NO.: SEE RFID TAG IN CLEAR POUCH</div><div><div>DATE</div><div>INITIAL</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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This instruction applies to the following models:

1100092	1101241	1101474	1101783	1101859	6116607
1100181	1101250	1101511	1101784	1101860	6116609
1100195	1101251	1101512	1101785	1101861	6116610
1100230	2104180	1101513	1101786	1101862	1102025
1100231	1101252	1101514	1101787	1101863	1102026
1100232	1101252H	1101515	1101789	1101864	1102027
1100233	1101253	1101516	1101790	1101866	1102028
1100245	1101253H	1101611	1101791	1101867	1102029
1100246	1101254	1101625	1101792	1101869	1102030
1100247	1101254H	1101626	1101793	1101870	1102031
1100299	1101255	1101627	1101794	1101871	1102032
1100406	1101255H	1101628	1101795	1101872	1102033
1100482	1101256	1101629	1101796	1101873	1102034
1100520	1101257	1101630	1101797	1101874	1102035
1100521	1101258	1101631	1101798	1101890	1102036
1100522	1101259	1101632	1101800	1101891	1102037
1100540	1101260	1101633	1101801	1101892	1102038
1100541	1101261	1101634	1101802	1101893	1102039
1100542	1101262	1101635	1101803	1101909	1102040
1100543	1101266	1101636	1101804	1101910	1102041
1100550	1101267	1101637	1101805	1101911	1102042
1100675	1101268	1101638	1101806	1101912	1102043
1100676	1101269	1101639	1101807	1101913	1102082
1100700	1101270	1101640	1101808	1101977	1102083
1100701	1101271	1101641	1101809	1101978	1102084
1100702	1160008	1101642	1101810	1101979	1102086
1100703	1101272	1101643	1101812	1101980	1102090
1100726	1101273	1101644	1101813	1101981	1102132
1100727	1101274	1101645	1101814	1102000	1102133
1100750	1101340	1101646	1101815	1160002	1102134
1100756	1101341	1101647	1101816	1170002	1102135
1100762	1101420	1101649	1101817	1170003	1102200
1100767	1101421	1101650	1101818	2104177	1102201
1100768	1101422	1101651	1101819	2104181	1102205
1100769	1101423	1101653	1101820	2104182	1102206
1100775	1101424	1101654	1101821	1102000H	1102207
1100776	1101436	1101654H	1101822	1102001	1102257
1100777	1101437	1101655	1101823	1160000	1102270
1100778	1101438	1101655H	1101824	1102002	1102271
1100779	1101439	1101656	1101826	1102003	1102286
1100780	1101440	1101656H	1101827	1102004	1102525
1100781	1101441	1101657	1101828	1102005	1102526
1100840	1101450	1101658	1101829	1102008	1102526H
1100841	1101451	1101659	1101830	1102009	1102527
1100842	1101452	1101660	1101831	1102010	1102528
1100925	1101453	1101661	1101832	1170002	1102529
1100926	1101455	1101662	1101833	1170003	1102529H
1100927	1101456	1101663	1101834	6100771	1102530
1100928	1101457	1101664	1101835	6100772	1102531
1100929	1101458	1101665	1101836	6100776	1102532
1101021	1101459	1101666	1101837	6100777	1102533
1101022	1101460	1101667	1101838	6116604	1102534
1101116	1101461	1101668	1101839	6116605	1102536
1101117	1101462	1101669	1101840	6116606	1102537
1101118	1101463	1101670	1101841	1102010ALT1	1102538
1101119	1101464	1101671	1101842	1102010	1102539
1101120	1101465	1101672	1101843	1170002	1102540
1101121	1101466	1101673	1101844	1170003	1102541
1101214	1101467	1101776	1101845	6100771	1102542
1101215	1101468	1101777	1101851	6100772	1102543
1101216	1101469	1101778	1101854	6100776	1102543H
1101217	1101470	1101779	1101855	6100777	1102546
1101218	1101471	1101780	1101856	6116604	1102548
1101219	1101472	1101781	1101857	6116605	1102549
1101240	1101473	1101782	1101858	6116606	1102556

1102557	1160001	1103826	1104782	1104955	1105725
1102558	1103321	1103827	1104783	1105000	1105726
1102559	1103350	1103828	1104800	1105001	1105727
1102560	1103351	1103829	1104801	1105002	1105728
1102561	1103352	1103831	1104803	1105003	1105729
1102562	1103353	1103836	1104804	1105004	1105732
1102563	1103354	1103837	1104805	1105005	1105733
1102564	1103355	1103852	1104806	1105300	1105734
1102565	1103356	1103853	1104850	1105301	1105735
1102566	1103357	1103854	1104851	1105325	1105750
1102875	1103358	1103855	1104852	1105326	1105751
1102875C	1103359	1103856	1104853	1105327	1105752
1102876	1103360	1103860	1104854	1105328	1105753
1102877	1103361	1103861	1104855	1105329	1105754
1102878	1103375	1103875	1104856	1105330	1105755
1102879	1103376	1103876	1104857	1105331	1105801
1102880	1103377	1103877	1104858	1105350	1105802
1102901	1103378	1103878	1104859	1105375	1105803
1102903	1103379	1103879	1104860	1105375C	1105804
1102904	1103383	1103880	1104861	1105376	1105825
1102905	1103384	1103882	1104863	1105377	1102353
1102907	1103385	1103884	1104866	1105378	1105825C
1102908	1103386	1103885	1104871	1105379C	1105826
1102911	1103393	1103886	1104872	1105382	1102351
1102912	1103394	1103888	1104873	1105383	1105827
1102925	1103395	1104125	1104874	1105384	1102352
1102926	1103510	1104126	1104875	1105400	1105828
1102927	1106725	1104625	1104876	1105401	1102354
1102928	1106726	AA7059A	1104877	1105405	1105829
1102929	1106727	AA7060A	1104878	1105406	1105830
1102930	1106728	1104626	1104879	1105407	1102355
1102950	1106729	1104627	1104880	1105408	1105830C
1102951	1106730	1104628	1104881	1105409	1105831
1102952	1103511	1104629	1104882	1105410	1102350
1102953	1103512	1104630	1104885	1105411	1105832
1102954	1103513	1104632	1104886	1105450	1105833
1102955	2104168	1104633	1104890	1105475	1105834
1102956	2104169	1104635	1104891	1105476	1105835
1102957	2104170	1104636	1104892	1105477	1105836
1102962	2104171	1104650	1104893	1105478	1105837
1102963	2104172	1104725	1104894	1105479	1105838
1102964	2104173	1104729	1104900	1105480	1105840
1102965	2104174	1104730	1104901	1105481	1105850
1102966	2104175	1104731	1104902	1105482	1105851
1102972	2104176	1104732	1104903	1105483	1105852
1102973	2104178	1104733	1104904	1105484	1105853
1103251	2104179	1104734	1104905	1105487	1105854
1103252	1103611	1104735	1104906	1105488	1105900
1103253	1103612	1104736	1104907	1105489	1105901
1103254	1103800	1104739	1104908	1105490	1105925
1103255	1103801	1104740	1104909	1105491	1105926
1103256	1103802	1104741	1104910	1105500	1105950
1103257	1103803	1104742	1104911	1105555	1105951
1103258	1103803ALT	1104743	1104912	1105556	1105952
1103261C	1103803	1104744	1104914	1105577	1105953
1103262	1103804	1104745	1104915	1105650	1105954
1103262C	1103805	1104746	1104916	1105651	1105975
1103263	1103806	1104747	1104917	1105652	1106000
1103263C	1103807	1104748	1104918	1105675	1106001
1103264	1103808	1104749	1104919	1105676	1106002
1103265	1103809	1104775	1104920	1105677	1106003
1103266	1103810	1104776	1104921	1105678	1106004
1103267	1103811	1104777	1104924	1105679	1106005
1103270	1103812	1104778	1104950	1105680	1106006
1160001	1103813	1104779	1104952	1105681	1106007
1103270ALT1	1103814	1104780	1104953	1105682	1106008
1103270	1103825	1104781	1104954	1105683	1106009

1106010	1106119	1106386	1106952	1107426	1107725
1106011	1106120	1106400	1106953	1107427	1107726
1106012	1106125	1106401	1106954	1107427C	1107727
1106013	1106126	1106403	1106975	1107428	1107775
1106017	1106127	1106404	1106976	1107428C	1107776
1106018	1106150	1106405	1106977	1107429	1107777
1106019	1106151	1106406	1106978	1107429C	1107778
1106020	1106152	1106407	1107000	1107430	1107781
1106021	1106175	1106408	1107001	1107430C	1107782
1106022	1106180	1106409	1107002	1107450	1107783
1106023	1106200	1106410	1107003	1107450C	1107784
1106024	1106201	1106411	1107025	1107451	1107801
1106025	1106203	1106414	1107026	1107451C	1107802
1106028	1106204	1106425	1107027	1107452	1107803
1106028H	1106205	1106426	1107075	1107452C	1107804
1106029	1106207	1106427	1107125	1107453	1107805
1106030	1106208	1106450	1107126	1107453C	1107806
1106031	1106209	1106450H	1107127	1107454	1107806H
1106032	1106210	1106451	1107128	1107454C	1107807
1106033	1106211	1106451H	1107129	1107455	1107807H
1106034	1106275	1106452	1107150	1107455C	1107808
1106035	1106279	1106452H	1107151	1107460	1107809
1106036	1106300	1106453	1107152	1107461	1107810
1106037	1106301	1106453H	1107153	1107462	1107811
1106039	1106302	1106454	1107154	1107463	1107812
1106040	1106303	1106455	1107200	1107465	1107813
1106041	1106304	1106456	1107201	1107466	1107814
1106048	1106305	1106476	1107202	1107467	1107815
1106055	1106306	1106477	1107203	1107468	1107816
1106056	1106307	1106478	1107204	1107469	1107817
1106057	1106308	1106479	1107205	1107470	1107817H
1106058	1106309	1106480	1107206	1107471	1107818
1106059	1106310	1106481	1107207	1107475	1107819
1106063	1106325	1106482	1107225	1107475C	1107820
1106066	1106326	1106550	1107250	1107476	1107821
1106067	1106327	1106675	1107251	1107476C	1107822
1106068	1106328	1106676	1107252	1107477	1107823
1106069	1106329	1106677	1107275	1107477C	1107824
1106070	1106330	1106679	1107276	1107478	1107825
1106071	1106331	1106680	1107277	1107478C	1107828
1106072	1106332	1106681	1107278	1107479	1107829
1106074	1106333	1106682	1107279	1107479C	1107830
1106076	1106334	1106683	1107400	1107480	1107831
1106077	1106350	1106684	1107400C	1107480C	1107832
1106078	1106351	1106687	1107402	1107500	1107833
1106079H	1106352	1106688	1107402C	1107501	1107834
1106080H	1106354	1106700	1107403	1107525	1107836
1106081	1106355	1106701	1107404	1107526	1107850
1106082H	1106356	1106702	1107405	1107550	1107851
1106083H	1106357	1106703	1107406	1107551	1107855
1106100	1106365	1106704	1107406C	1107575	1107875
1106101	1106366	1106750	1107407	1107576	1107926
1106102	1106367	1106751	1107407C	1107577	1107950
1106103	1106368	1106754	1107408	1107578	1107951
1106104	1106369	1106755	1107408C	1107579	1107952
1106105	1106370	1106756	1107409	1107580	1107954
1106106	1106375	1106800	1107410	1107600	1107957
1106107	1106376	1106801	1107415	1107626	1107958
1106108	1106377	1106802	1107416	1107629	1107959
1106109	1106378	1106900	1107417	1107630	1107960
1106110	1106379	1106901	1107418	1107650	1107962
1106111	1106380	1106902	1107419	1107651	1108000
1106114	1106381	1106903	1107420	1107652	1108001
1106115	1106382	1106904	1107421	1107653	1108002
1106116	1106383	1106905	1107422	1107656	1108003
1106117	1106384	1106950	1107425	1107658	1108025
1106118	1106385	1106951	1107425C	1107659	1108026

1108034	1109108	1109977	1110792	1111577
1108100	1109109	1110025	1110793	1111578
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1108102	1109111	1110027	1110801	1111580
1108103	1109121	1110028	1110802	1111581
1108104	1109125	1110029	1110803	1111582
1108105	1109126	1110030	1110810	1111583
1108106	1109127	1110052	1110811	1111584
1108107	1109128	1110570	1110812	1111585
1108108	1109129	1110575	1110813	1111586
1108109	1109130	1110575H	1110814	1111591
1108125	1109142	1110576	1110820	1111592
1108126	1109143	1110576H	1110830	1111593
1108127	1109144	1110577	1110831	1111594
1108128	1109145	1110577H	1110832	1111595
1108129	1109150	1110578	1110850	1111610
1108130	1109151	1110578H	1110851	1111611
1108131	1109152	1110582	1110852	1111612
1108132	1109400	1110586	1110853	1111613
1108133	1109425	1110587	1110854	1310065
1108134	1109426	1110588	1110855	1370111
1108175	1109427	1110589	1110856	1370112
1108176	1109429	1110590	1110857	3103300
1108177	1109431	1110591	1110858	3103301
1108178	1109441	1110600	1110859	3103330
1108179	1109446	2104205	1110930	3103331
1108184	1109447	1110601	1110935	3103332
1108185	1109448	1110602	1110942	3103333
1108186	1109449	1110603	1110950	3103334
1108187	1109450	1110604	1110951	3103335
1108188	1109451	1110605	1110952	3103336
1108189	1109475	1110606	1110953	3103337
1108190	1109500	1110608	1110954	3103350
1108225	1109501	1110618	1110955	3103351
1108226	1109502	1110625	1110956	3103375
1108227	1109503	1110626	1110990	3103386
1108228	1109550	1110675	1110992	3103387
1108229	1109551	1110700	1110994	3103388
1108300	1109552	1110701	1110995	3103389
1108301	1109553	1110702	1111000	3103390
1108302	1109554	1110704	1111001	3103395
1108305	1109555	1110725	1111002	3103420
1108307	1109556	1110727	1111003	3103450
1108308	1109557	1110750	1111004	3103451
1108309	1109558	1110751	1111275	3103452
1108310	1109559	1150054	1111276	3103453
1108311	1109560	1110752	1111277	3103471
1108375	1109561	1150058	1111278	3103515
1108376	1109575	1110753	1111279	3103520
1108377	1109651	1110754	1111280	3103521
1108378	1109652	1110755	1111325	3103522
1108379	1109653	1110760	1111326	3103523
1108380	1109654	1110761	1111327	3103524
1108400	1109675	1110762	1111330	3103543
1109000	1109676	1110770	1111331	3103544
1109002	1109677	1110771	1111332	3103547
1109062	1109678	1110772	1111500H	3103549
1109075	1109850	1110773	1111501H	
1109076	1109851	1110774	1111502H	
1109077	1109852	1110780	1111503H	
1109078	1109853	1110781	1111504H	
1109079	1109854	1110782	1111505H	
1109080	1109855	1110783	1111506H	
1109102	1109885	1110784	1111507H	
1109105	1109886	1110785	1111508H	
1109106	1109975	1110786	1111509H	
1109107	1109976	1110787	1111575	



INSPECTION DATE	INSPECTION ITEMS NOTED	CORRECTIVE ACTION	MAINTENANCE PERFORMED
Approved By:			
Approved By:			
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Approved By:			
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Approved By:			

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